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NOTICE OF ALLOWANCE AND FEE(S) DUE

23838 7590 12/15/2008 KENYON & KENYON LLP

1500 K STREET N.W. SUITE 700 WASHINGTON DC 20005 EXAMINER

MEYER, JACOB B

ART UNIT PAPER NUMBER

3618 DATE MAILED: 12/15/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/565,851	01/26/2006	Akira Hommi	1269932	8113

TITLE OF INVENTION: VEHICLE SLIP CONTROL SYSTEM AND METHOD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/16/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used I correspondence including d below or directed off ions.	or tran	smitting the ISSU Patent, advance or in Block 1, by (a	TE FEE and PUBLIC ders and notification i) specifying a new o					tould be completed where correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
23838 KENYON & K 1500 K STREET SUITE 700	ENYON LLP `N.W.	/2008			I bor	Cer	tificate	of Mailing or Trans	
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APPLICATION NO. FILING DATE				FIRST NAMED INVENTOR			ATTORNEY DOCKET NO. CONFIRMATION N		CONFIRMATION NO.
10/565,851	01/26/2006			Akira Hommi				1269932	8113
TITLE OF INVENTION	VEHICLE SLIP CON	TROL:	SYSTEM AND M	ETHOD					
APPLN, TYPE	SMALL ENTITY	IS	SUE FEE DUE	PUBLICATION FEE I	DUE	PREV. PAID ISSUE	S FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		\$1510	\$300		\$0		\$1810	03/16/2009
EXAM	INER		ART UNIT	CLASS-SUBCLASS	S				
MEYER, J	ACOB B		3618	180-197000		_			
Address form PTO/SE "Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME Al	ondence address (or Cha 1/122) attached. cation (or "Fee Address 2 or more recent) attach ND RESIDENCE DAT. cess an assignee is ident in 37 CFR 3.11. Comp	nge of " Indicad. Us	Correspondence ation form e of a Customer	(I) the names of or agents OR, alte (2) the name of a registered attorney 2 registered patent listed, no name with the PATENT (print of the patent).	up to rnativ single y or a t attor ill be or typ the pa	e firm (having as a gent) and the name meys or agents. If opinted. e) atent. If an assignassignment.	memb es of u no nam	er a 2 p to e is 3 lentified below, the do	ocument has been filed for
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4a. The following fee(s) are submitted: Itsue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			ed)	A. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
	SMALL ENTITY state	ıs. See	37 CFR 1.27.					ITTY status. Sec 37 CF	
NOTE: The Issue Fee and interest as shown by the r	I Publication Fee (if req ecords of the United Sta	uired) i ites Pat	will not be accepted ent and Trademark	d from anyone other t Office.	han th	ne applicant; a regi	stered a	attorney or agent; or th	e assignee or other party in
Authorized Signature				Date					
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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10/565,851	01/26/2006	Akira Hommi	1269932	8113
23838 7	590 12/15/2008		EXAM	UNER
KENYON & KE	ENYON LLP	MEYER,	JACOB B	
1500 K STREET	N.W.	ART UNIT	PAPER NUMBER	
SUITE 700 WASHINGTON,	DC 20005	3618 DATE MAILED: 12/15/200	8	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 466 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 466 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)
10/565,851	HOMMI, AKIRA
Examiner	Art Unit
JACOB MEYER	3618

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- 1. This communication is responsive to the response to election filed 08/29/2008.
- The allowed claim(s) is/are 1,2,6 and 8-11.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a)

 All b)

 Some* c)

 None of the:
 - 1. A Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date ____
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date <u>See Continuation Sheet</u>

 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. Other .

/Christopher P Ellis/

Supervisory Patent Examiner, Art Unit 3618

 $Continuation \ of \ Attachment (s) \ 3. \ Information \ Disclosure \ Statements \ (PTO/SB/08), \ Paper \ No. \ / Mail \ Date: \ 01/26/2006, 07/17/2007.$

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or
additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR
 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the
payment of the issue fee.

The application has been amended as follows:

In the Claims:

- In line 7 of claim 6, "slip detection control" has been deleted and replaced with -slip detection module--.
- In line 4 of claim 11, "a drive shaft liked with" has been deleted and replaced with
 --a drive shaft linked with--.

DETAILED ACTION

Election/Restrictions

 Applicant's election without traverse of Species 1 in the reply filed on 08/29/2008 is acknowledged.

Priority

 Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file. Application/Control Number: 10/565,851 Page 3

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Information Disclosure Statement

 The information disclosure statements (IDSs) submitted on 01/26/2006 and 07/17/2007 are in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Allowable Subject Matter

4. Claims 1-2, 6, and 8-11 are allowed. The following is an examiner's statement of reasons for allowance: The prior art when taken alone or in combination with another does not teach or fairly suggest at this time A vehicle that is driven with output of power to a drive shaft linked with drive wheels, said vehicle comprising: a voltage converter that converts a voltage of an accumulator into a desired form of voltage; a motor that receives a supply of electric power having the voltage converted by said voltage converter and outputs power to the drive shaft; a slip detection module that detects a slip due to spin of the drive wheels; and a controller that, in response to detection of a slip by said slip detection module, drives and controls said motor to restrict a torque output to the drive shaft with a view to converging the detected slip, and sets an initial torque for starting cancellation of the restriction of the torque output to the drive shaft, based on the restriction of the torque output, said controller driving and controlling said motor, in response to convergence of the detected slip, to apply the setting of the initial torque and thereby cancel the restriction of the torque output to the drive shaft, wherein said controller drives and controls said motor to restrain a degree of the cancellation of the torque restriction for a preset time period, which represents a time required to stabilize the voltage-converting operation of said voltage converter, after cancellation of the restriction of the torque output to the drive shaft to a

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level of the initial torque, to cancel the restriction of the torque output to the drive shaft by a slope of a first time change until clapse of the preset time period and to cancel the torque restriction by a slope of a second time change, which is greater than the slope of the first time change, after clapse of the preset time period. In particular, the prior art does not at this time teach wherein said controller drives and controls said motor to restrain a degree of the cancellation of the torque restriction for a preset time period, which represents a time required to stabilize the voltage-converting operation of said voltage converter, after cancellation of the restriction of the torque output to the drive shaft to a level of the initial torque, to cancel the restriction of the torque output to the to the drive shaft by a slope of a first time change until clapse of the preset time period and to cancel the torque restriction by a slope of a second time change, which is greater than the slope of the first time change, after clapse of the preset time period for the slip detection configuration as claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The documents cited in the Notice of References Cited attached hereto contain subject matter that may be of interest to Applicant.

Application/Control Number: 10/565,851

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to JACOB MEYER whose telephone number is (571)270-3535. The examiner can normally be reached on Monday - Thursday 9am to 7pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, CHRISTOPHER ELLIS can be reached on 571-272-6914. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Christopher P Ellis/ Supervisory Patent Examiner, Art Unit 3618

/J. M./ Examiner, Art Unit 3618 12/07/2008